Serial No.:

Filed: Herewith Page: 3 of 7

IN THE CLAIMS:

Please cancel claims 1-31, without prejudice.

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1-31 (Cancelled)

- 32. (New) An isolated nucleic acid consisting of SEQ ID NO:2 or SEQ ID NO:9.
- 33. (New) An isolated nucleic acid comprising SEQ ID NO:2 or SEQ ID NO:9.
- 34. (New) An isolated nucleic acid encoding a polypeptide comprising a sequence as set forth in SEQ ID NO:1 or 10.
- 35. (New) An isolated nucleic acid comprising a strand that hybridizes under high stringency conditions to a single stranded probe, the sequence of which probe consists of SEQ ID NO:2 or 9 or the complement thereof, wherein the nucleic acid encodes a polypeptide that contains at least one bromodomain and binds to a protein selected from the group consisting of hSNF2H, hSNF2L, NCoA-62/Skip and homologues thereof, and wherein the high stringency conditions comprise hybridization at 65 °C and washing in 2X SSC containing 0.1% SDS.
- 36. (New) The nucleic acid of claim 35, wherein the polypeptide comprises a sequence of as set forth in SEQ ID NO:1 or 10.

Serial No.:

Filed

Page

: Herewith : 4 of 7

37. (New) The nucleic acid of claim 35, wherein the strand is at least 15 nucleotides in length.

- 38. (New) The nucleic acid of claim 37, wherein the strand is at least 351 nucleotides in length.
- 39. (New) The nucleic acid of claim 38, wherein the strand is at least 2200 nucleotides in length.
- 40. (New) A vector comprising the nucleic acid of claim 32.
- 41. (New) A vector comprising the nucleic acid of claim 33.
- 42. (New) A vector comprising the nucleic acid of claim 34.
- 43. (New) A vector comprising the nucleic acid of claim 35.
- 44. (New) A cultured host cell comprising the nucleic acid of claim 32.
- 45. (New) A cultured host cell comprising the nucleic acid of claim 33.
- 46. (New) A cultured host cell comprising the nucleic acid of claim 34.
- 47. (New) A cultured host cell comprising the nucleic acid of claim 35.
- 48. (New) A method of producing a polypeptide, the method comprising culturing the cultured host cell of claim 44 in a culture, expressing the polypeptide encoded by the nucleic acid in the cultured host cell, and isolating the polypeptide from the culture.

Serial No.:

Filed : Herewith Page : 5 of 7

49. (New) An isolated nucleic acid encoding a polypeptide the sequence of which comprise the amino acid sequence of SEQ ID NO:1 or SEQ ID NO:10 with 0 to 50 conservative amino acid substitutions, wherein the polypeptide contains at least one bromodomain and binds to a protein selected from the group consisting of hSNF2H, hSNF2L, NCoA-62/Skip and homologues thereof.

- 50. (New) The isolated nucleic acid of claim 49, wherein the number of conservative amino acid substitutions is 0 to 30.
- 51. (New) The isolated nucleic acid of claim 49, wherein the number of conservative amino acid substitutions is 0 to 10.
- 52. (New) An isolated nucleic acid comprising a nucleotide sequence that is at least 70% homologous to SEQ ID NO:2 or SEQ ID NO:9, wherein the nucleic acid encodes a polypeptide that contains at least one bromodomain and binds to a protein selected from the group consisting of hSNF2H, hSNF2L, NCoA-62/Skip and homologues thereof.
- 53. (New) The isolated nucleic acid of claim 52, wherein the nucleotide sequence is at least 90% homologous to SEQ ID NO:2 or SEQ ID NO:9.
- 54. (New) The isolated nucleic acid of claim 52, wherein the nucleotide sequence is at least 95% homologous to SEQ ID NO:2 or SEQ ID NO:9.
- 55. (New) An isolated nucleic acid comprising a sequence that encodes a polypeptide the amino acid sequence of which is at least 60% identical to SEQ ID NO:1 or SEQ ID NO:10, wherein the polypeptide contains at least one bromodomain and binds to a protein selected from the group consisting of . hSNF2H, hSNF2L, NCoA-62/Skip and homologues thereof.

Serial No.:

Filed : Herewith Page : 6 of 7

56. (New) The isolated nucleic acid of claim 55, wherein the amino acid sequence is at least 80% identical to SEQ ID NO:1 or SEQ ID NO:10.

57. (New) The isolated nucleic acid of claim 55, wherein the amino acid sequence is at least 95% identical to SEQ ID NO:1 or SEQ ID NO:10.